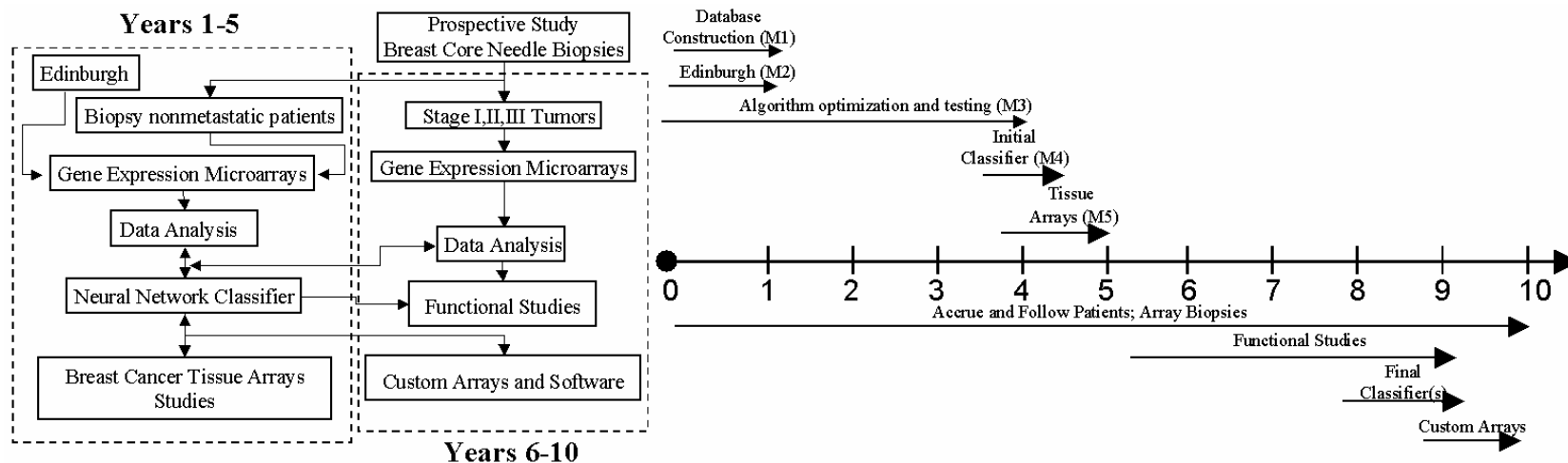
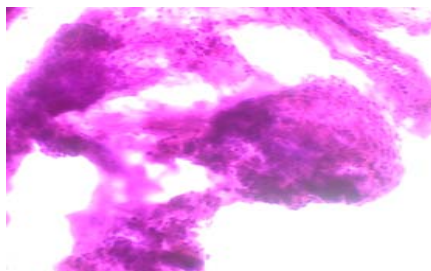


Molecular Classification of Breast Cancer: R01 CA96483

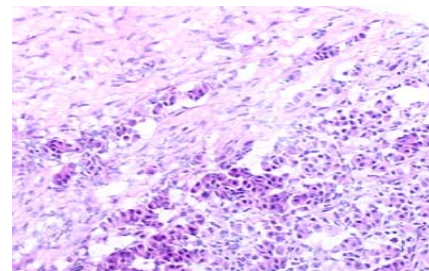
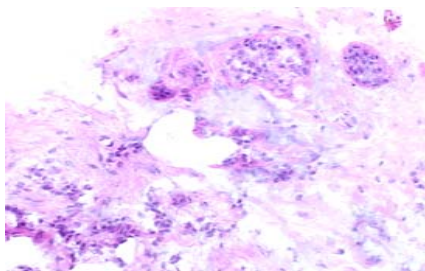
Project Overview



Tissue Processing

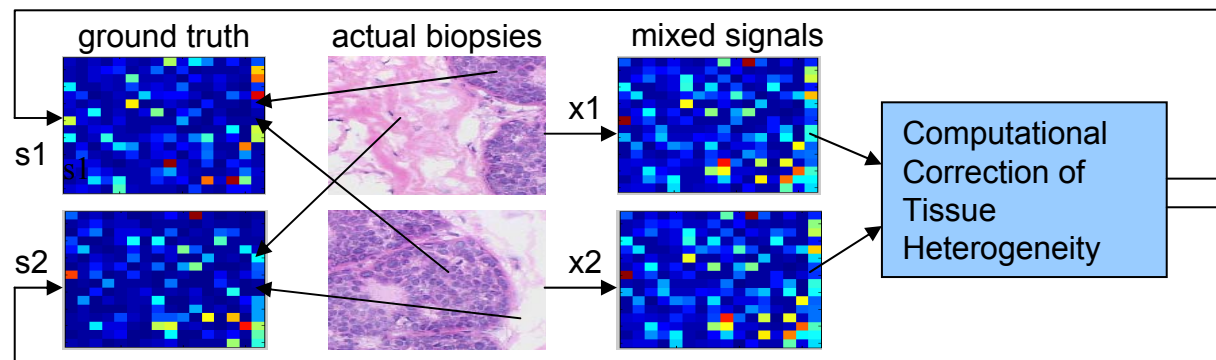


Unoptimized



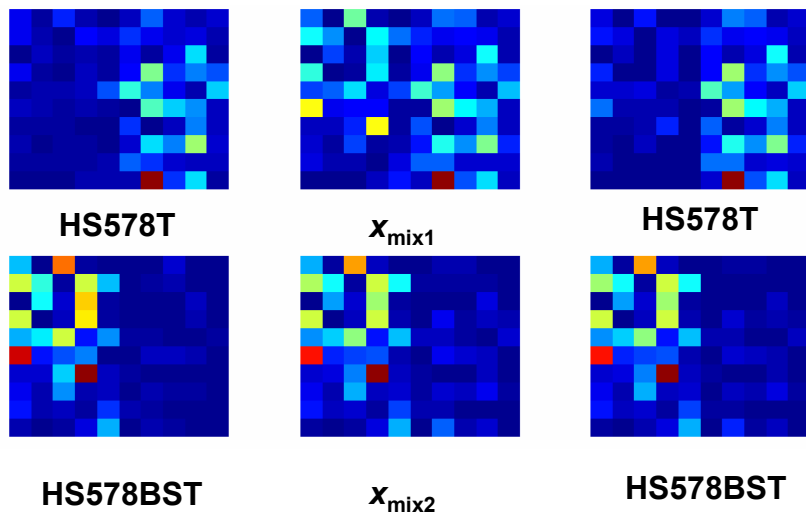
Optimized

Tissue Heterogeneity Correction (in silico)



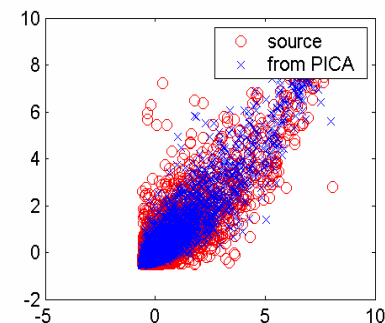
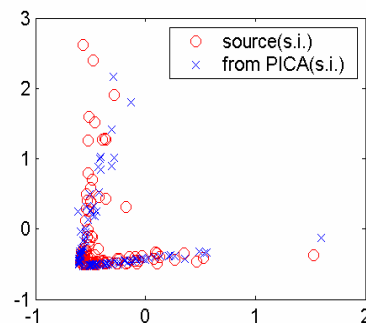
The task is to “blindly” recover the source signals ($s_{cancerous}(i)$, $s_{stromal}(i)$) from their observed mixtures ($x_{biopsy1}(i)$ and $x_{biopsy2}(i)$).

HS578T (breast cancer cell line) and HS578BST (fibroblast cell line from same patient).



$$x_{mix1} = 0.75 * s_{HS578T} + 0.25 * s_{HS578BST}$$

$$x_{mix2} = 0.25 * s_{HS578T} + 0.75 * s_{HS578BST}$$



Mixture observations
 red = ground truth; blue = recovered sources